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January 23, 2019

Mr. Ed Rawski, P.E.
Pennsylvania Department of Environmental Protection
Bureau of Waste Management
909 Elmerton Avenue
Harrisburg, PA 17110-8200

RE: Creswell Landfill; Landfill Gas Monitoring; BWM Permit #10008

4th Quarter 2018 Perimeter %LEL LFG Report

Dear Mr. Rawski:

In accordance with the Municipal Waste Management Regulations (§273.292 – "Gas Control and Monitoring"), the Lancaster County Solid Waste Management Authority (LCSWMA) continues quarterly monitoring of methane gas levels at the perimeter of the above referenced facility.

LCSWMA personnel completed monitoring of sample points along the facility boundary and in adjacent buildings and structures December 14, 2018. The results of that monitoring are attached. No sampled peripheral locations, structures or landfill gas monitoring probes (sampled 12/14/18).

Please do not hesitate in contacting me at nrogers@lcswma.org, if you have any questions or concerns.

Respectfully Submitted,

Thick Mean

Nick Rogers

**Environmental Compliance Manager** 

Attachment

cc: Michelle Marsh

Randy Weiss (PA DEP)

cc/att: Bob Eshbach

Jeff Musser

Jordan Gallagher

Dan Brown

## CRESWELL METHANE MONITORING PROGRAM SAMPLE POINT INSPECTION FORM

SAMPLE	I	METHANE LEVEL (as % LEL)				
POINT	DESCRIPTION	DATE	DATE	DATE	DATE	
NUMBER		3/26/18	6/28/18	8/23/18	12/14/18	
1 to 15	GP WELLS	not included with this monitoring				
16	CONTROL BUILDING LAB	0	0	0	0	
17	CONTROL BUILDING COMPRESSOR ROOM	0	0	0	0	
18	CONTROL BUILDING LOCKER ROOM	0	0	0	0	
19	NTHW PIT	no longer exists				
20	OTHW PIT	0	0	0	0	
21	LTS AERATION PIT AT WEATHER STATION #1	0	0	0	0	
22	LTS AERATION PIT AT WEATHER STATION #2	0	0	0	0	
23	LTS WIRE TRENCH VENTS 1	0	0	0	0	
24	LTS WIRE TRENCH VENTS 2	0	0	0	0	
25	LTS WIRE TRENCH VENTS 3	no longer exists				
26	PUMP HOUSE	0	0	0	0	
27	PUMP HOUSE WET WELL	0	0	0	0	
28	MH #1	0	0	0	0	
29	MH #2	0	0	0	0	
30	INLET; STREAM R PIPE	0	0	0	0	
31	OUTLET; STREAM R PIPE	0	0	0	0	
32	UPPER END; RAVINE LEACHATE COLLECTION C.O.	no longer exists				
33	SEE MAP	0	0	0	0	
34	SEE MAP	0	0	0	0	
35	SEE MAP	0	0	0	0	
36	SEE MAP	0	0	0	0	
37	SEE MAP	0	0	0	0	
38	SEE MAP	0	0	0	0	
39	SEE MAP	0	0	0	0	
40	SEE MAP	0	0	0	0	
41	SEE MAP	0	0	0	0	
42	SEE MAP	0	0	0	0	
43	SEE MAP	0	0	0	0	
44	SEE MAP	0	0	0	0	
45	SEE MAP	0	0	0	0	
46	SEE MAP	0	0	0	0	
47	SEE MAP	0	0	0	0	
48	SEE MAP	0	0	0	0	
49	SEE MAP	0	0	0	0	
50	SEE MAP	0	0	0	0	
	Atmospheric Pressure (in. Hg)	30.08"	29.24"	29.48"	29.6"	
	Air Temperature (Deg. C)	3.72°C	26.47°C	22.43°C	5°C	

Revision Date: June 2011

Revisions: deleted points 62 to 66; added points 81 through 86

## CRESWELL METHANE MONITORING PROGRAM SAMPLE POINT INSPECTION FORM

POINT NUMBER	NUMBER			METHANE LEVEL (as % LEL)					
NUMBER   3/26/18   6/28/18   8/23/18   12/15   1		DESCRIPTION							
51         LTS DISCHARGE MH #1         0         0         0         0           52         LTS DISCHARGE MH #2         0         0         0         0           53         DRAIN PIPE UNDER RAVINE PHASE II         0         0         0         0           54         OLD SCALE HOUSE PIT         no longer monitored         no longer exists           55         NEW SCALE HOUSE PIT         NA			ı	1		12/14/18			
53         DRAIN PIPE UNDER RAVINE PHASE II         0         0         0         0           54         OLD SCALE HOUSE PIT         no longer monitored           55         NEW SCALE HOUSE PIT         no longer exists           56         LAGOON LINER BALLOON 1         NA	51	LTS DISCHARGE MH #1	0	0		0			
54         OLD SCALE HOUSE PIT         no longer monitored           55         NEW SCALE HOUSE PIT         no longer exists           56         LAGOON LINER BALLOON 1         NA         NA         NA         NA           57         LEACHATE PIPE LOWER END OF RAVINE         capped; no longer monitored           58         CWOB092W         0         0         0         0           59         CWOB093A         0         0         0         0         0           60         CWOB093B (aka CWMP016W)         0         0         0         0         0         0           61         CWOB093B (aka CWMP016W)         0	52	LTS DISCHARGE MH #2	0	0	0	0			
SECONDE   SECO	53	DRAIN PIPE UNDER RAVINE PHASE II	0	0	0	0			
56         LAGOON LINER BALLOON 1         NA         NA<	54	OLD SCALE HOUSE PIT	<u></u>						
56         LAGOON LINER BALLOON 1         NA         NA<	55	NEW SCALE HOUSE PIT							
58         CWOB092W         0	56	LAGOON LINER BALLOON 1							
59         CWOB093A         0	57	LEACHATE PIPE LOWER END OF RAVINE							
60	58	CWOB092W	0	0	0	0			
61 CWOB080W (formerly CWMP006W) 62 CWGMP002; Gas monitoring probe 63 CWGMP04A; Gas monitoring probe 64 CWGMP04B; Gas monitoring probe 65 CWGMP06A; Gas monitoring probe 66 CWGMP06B; Gas monitoring probe 67 CWGMP08A; Gas monitoring probe 68 CWGMP08B; Gas monitoring probe 69 CWGMP08C; Gas monitoring probe 70 CWGMP10A; Gas monitoring probe 71 CWGMP10B; Gas monitoring probe 72 CWGMP10B; Gas monitoring probe 73 CWGMP10B; Gas monitoring probe 74 CWGMP10B; Gas monitoring probe 75 CWGMP10B; Gas monitoring probe 76 CWGMP10B; Gas monitoring probe 77 CWGMP10B; Gas monitoring probe 78 CWGMP10B; Gas monitoring probe 79 CWGMP10B; Gas monitoring probe 70 CWGMP10B; Gas monitoring probe 70 CWGMP10B; Gas monitoring probe	59	CWOB093A	0	0	0	0			
CWGMP002; Gas monitoring probe  CWGMP04A; Gas monitoring probe  CWGMP04B; Gas monitoring probe  CWGMP06A; Gas monitoring probe  CWGMP06B; Gas monitoring probe  CWGMP08B; Gas monitoring probe  CWGMP08B; Gas monitoring probe  CWGMP08C; Gas monitoring probe  CWGMP08C; Gas monitoring probe  CWGMP08C; Gas monitoring probe  CWGMP10A; Gas monitoring probe  CWGMP10B; Gas monitoring probe	60	CWOB093B (aka CWMP016W)	0	0	0	0			
CWGMP04A; Gas monitoring probe  64	61	CWOB080W (formerly CWMP006W)	0		0	0			
64 CWGMP04B; Gas monitoring probe 65 CWGMP06A; Gas monitoring probe 66 CWGMP06B; Gas monitoring probe 67 CWGMP08A; Gas monitoring probe 68 CWGMP08B; Gas monitoring probe 69 CWGMP08C; Gas monitoring probe 70 CWGMP10A; Gas monitoring probe 71 CWGMP10B; Gas monitoring probe 72 CWGMP10B; Gas monitoring probe 73 CWGMP10B; Gas monitoring probe 74 CWGMP10B; Gas monitoring probe 75 CWGMP10B; Gas monitoring probe 76 CWGMP10B; Gas monitoring probe 77 CWGMP10B; Gas monitoring probe 78 CWGMP10B; Gas monitoring probe	62	CWGMP002; Gas monitoring probe	`						
65 CWGMP06A; Gas monitoring probe 66 CWGMP08B; Gas monitoring probe 67 CWGMP08B; Gas monitoring probe 68 CWGMP08B; Gas monitoring probe 69 CWGMP08C; Gas monitoring probe 70 CWGMP10A; Gas monitoring probe 71 CWGMP10B; Gas monitoring probe 72 CWGMP10B; Gas monitoring probe 73 CWGMP10B; Gas monitoring probe 74 CWGMP10B; Gas monitoring probe 75 CWGMP10B; Gas monitoring probe	63	CWGMP04A; Gas monitoring probe							
65         CWGMP06A; Gas monitoring probe           66         CWGMP06B; Gas monitoring probe           67         CWGMP08A; Gas monitoring probe         0         0         0         0           68         CWGMP08B; Gas monitoring probe         0         0         0         0           69         CWGMP08C; Gas monitoring probe         0         0         0         0           70         CWGMP10A; Gas monitoring probe         0         0         0         0           71         CWGMP10B; Gas monitoring probe         0         0         0         0	64	CWGMP04B; Gas monitoring probe	abandor						
67         CWGMP08A; Gas monitoring probe         0         0         0         0           68         CWGMP08B; Gas monitoring probe         0         0         0         0           69         CWGMP08C; Gas monitoring probe         0         0         0         0           70         CWGMP10A; Gas monitoring probe         0         0         0         0           71         CWGMP10B; Gas monitoring probe         0         0         0         0	65	CWGMP06A; Gas monitoring probe			•	,			
68         CWGMP08B; Gas monitoring probe         0         0         0         0           69         CWGMP08C; Gas monitoring probe         0         0         0         0           70         CWGMP10A; Gas monitoring probe         0         0         0         0           71         CWGMP10B; Gas monitoring probe         0         0         0         0	66	CWGMP06B; Gas monitoring probe							
69         CWGMP08C; Gas monitoring probe         0         0         0         0           70         CWGMP10A; Gas monitoring probe         0         0         0         0           71         CWGMP10B; Gas monitoring probe         0         0         0         0	67	CWGMP08A; Gas monitoring probe	0	0	0	0			
70         CWGMP10A; Gas monitoring probe         0         0         0         0           71         CWGMP10B; Gas monitoring probe         0         0         0         0	68	CWGMP08B; Gas monitoring probe	0	0	0	0			
71 CWGMP10B; Gas monitoring probe 0 0 0	69	CWGMP08C; Gas monitoring probe	0	0	0	0			
70 000000000000000000000000000000000000	70	CWGMP10A; Gas monitoring probe	0	0	0	0			
72 CWGMP10C; Gas monitoring probe	71	CWGMP10B; Gas monitoring probe	0	0	0	0			
	72	CWGMP10C; Gas monitoring probe	0	0	0	0			
73 CWO100DW 0 0 0	73	CWO100DW	0	0	0	0			
74 CWO100SW 0 0 0	74	CWO100SW	0	0	0	0			
75 OMOMP40A O M 11 D 1	75	CWGMP12A; Gas Monitoring Probe	0	0	0	0			
70 000000000000000000000000000000000000	76	CWGMP12B; Gas Monitoring Probe	0	0	0	0			
77 CWGMP13A; Gas Monitoring Probe 0 0 0	77	CWGMP13A; Gas Monitoring Probe	0	0	0	0			
78 CWGMP13B; Gas Monitoring Probe 0 0 0	78	CWGMP13B; Gas Monitoring Probe	0	0	0	0			
70 000000000000000000000000000000000000	79			0		0			
ON ONOMBUTE OF THE STATE OF THE	80	CWGMP14B; Gas Monitoring Probe	0	0	0	0			
	81	CWGMP018; Gas Monitoring Probe	0	0	0	0			
CO COMOMPONO O MA II I D I	82	CWGMP019; Gas Monitoring Probe	0	0	0	0			
OO OMOMBOOO O M III I D I	83	CWGMP020; Gas Monitoring Probe		0		0			
84 CWGMP021; Gas Monitoring Probe 0 0 0	84	CWGMP021; Gas Monitoring Probe	0	0	0	0			
85 CWGMP022; Gas Monitoring Probe 0 0 0	85	CWGMP022; Gas Monitoring Probe	0	0	0	0			
86 CWGMP023; Gas Monitoring Probe 0 0 0	86	CWGMP023; Gas Monitoring Probe	0	0	0	0			
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<sup>&</sup>lt;sup>1</sup> Liner was repaired; "NA" indicates point was inspected and balloon has not reoccurred

Revision Date: <u>June 2011</u>

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